ABSTRACT OF THE DISCLOSURE

A camera signal processing apparatus comprises an
interpolated pixel data generating means for
interpolating, at least on two directions, pixel data
based on an imaging signal from a solid-state image
sensor in which an imaging light enters through a color
filter having a different spectral characteristic for
each pixel separately generating interpolated pixel data
in the at least two directions; a correlation detecting
means for detecting a correlation value indicative of a
degree of correlation in each of the at least two
directions of the interpolated pixel data; a normalizing
means for normalizing the correlation value of each of
the at least two directions to generate a normalized
value indicative of a relative value of the correlation
value of each of the at least two directions; a
correcting means for adding a predetermined correction
value to the normalized value; a weighting means for
weighting the interpolated pixel data in each of the at
least two directions by the normalized value and adding
together the weighted interpolated pixel data in all of
the at least two directions; and an image generating
means for generating an image based on the interpolated
pixel data weighted by the weighting means.